## **Index of Claims**



Application/Control No.

09/997,085

Examiner

Nga B. Nguyen

Date

Applicant(s)/Patent under Reexamination

FUHRMAN ET AL.

Art Unit

3692

| <b>√</b> | Rejected |
|----------|----------|
| 11       | Allowed  |

| _ | (Through numeral)<br>Cancelled |  |  |  |  |  |  |  |
|---|--------------------------------|--|--|--|--|--|--|--|
| ٠ | Restricted                     |  |  |  |  |  |  |  |

Claim

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| Cla      | <u> </u>              |            | _        | _  | Dat          | е  |              | ,        |            |          |
|----------|-----------------------|------------|----------|--|--------------|--|--------------|----------|------------|----------|
| Final    | Original              | 5/25/07    |          |  |              |  |              |          |            |          |
|          | 1<br>2<br>3<br>4<br>5 | <b>√</b>   |          | T  | T            | T  |              | Т        | T          | П        |
|          | 2                     | V          |          | Γ  |              |  | Т            |          |            |          |
|          | 3                     | V          |          | Г  |              |  |              |          | Т          |          |
|          | 4                     | J          |          | <b>—</b>   |              |  |              |          | T          |          |
|          | 5                     | Ī          |          |  | 1 -          | 1  | Т            | 1        |            | П        |
|          | 6                     | Ī          |          | T  | 1            |  |              | $\vdash$ | <b>†</b>   |          |
|          | 7                     | V          |          |  | 1            |  |              |          | T          | П        |
|          | 8                     |            |          | Г  | Г            |  | Г            |          |            |          |
|          | 9                     | ✓          |          |  |              |  |              |          | Г          | П        |
|          | 10                    | √          |          |  |              |  |              |          |            |          |
|          | 11                    | ✓          |          |  |              |  | -            | П        |            |          |
|          | 12                    | √          | L        |  |              |  |              |          |            |          |
|          | 13                    | √          | L        | _  | ┖            |  |              | L        | _          |          |
|          | 13<br>14<br>15        | √          |          | <u> </u>   |              |  |              | L        |            | Ш        |
|          | 15                    | √          | L        | _  | _            |  | $oxed{oxed}$ | L        |            |          |
|          | 16<br>17              | √          |          | <u> </u>   |              | L  | <u> </u>     | _        | _          |          |
|          | 17                    | Į√         | <u> </u> | <del> </del>                                     | _            | <u> </u>   | ┡            | ļ        | <u> </u>   | Щ        |
|          | 18                    | ļΥ         | L        | ├  | ┡            | <u> </u>   | ⊢            | ļ_       | <u> </u>   | <u> </u> |
|          | 19                    | 1          | -        | -  | ╀            | ├-   | ├-           |          | <u> </u>   | Щ        |
|          | 20                    | Ϋ́         | ├—       | ├  | ╀            | ⊢  | <u> </u>     | ļ        | ├          |          |
| <u> </u> | 21<br>22              | 7          | $\vdash$ | ╁  | ├            | -  |              | ┢        |            | Н        |
|          | 23                    | 7          | -        | ╁  | -            | ┢  | ┢            | ├        | -          | Н        |
|          | 24                    |            | ├─       | $\vdash$   | ${\dagger}$  | $\vdash$   | <u> </u>     | ┢┈       | $\vdash$   | Н        |
|          | 24<br>25              | Ĭ          |          | 1-   | T            |  | <u> </u>     | 1        | $\vdash$   | Н        |
|          | 26                    | V          | Г        |  | T            | Г  | П            | 1        | Г          | П        |
|          | 27<br>28              | ✓          |          |  |              |  | Γ            |          | Г          |          |
|          | 28                    | √          |          |  |              |  |              |          |            |          |
|          | 29                    | ✓          | L        | L.   |              |  |              |          |            |          |
|          | 30<br>31              | ンマンマンシン    |          | L.   |              | _  | L            | <u> </u> |            |          |
|          | 31                    | ✓          | <u> </u> | _  | _            | ļ  | _            | L        | L          |          |
|          | 32                    | V          | _        | <u> </u>   | <u> </u>     | _  | ╙            |          | <u> </u>   | Ш        |
|          | 33                    | .√         | _        | <u> </u>   | <u> </u>     | <u> </u>   | <u> </u>     | _        | <u> </u>   | Н        |
|          | 34<br>35              | \ <u>\</u> | <u> </u> | -  | _            | <del> </del> —                                   | ┝            | ┝        | -          | $\vdash$ |
|          | 36                    | V          | ├-       | ⊢  | -            | -  | ⊢            | ⊢        |            | Н        |
|          | 37                    | ./         | -        | ┢  |              | ⊢  | ⊢            | ├        |            | Н        |
|          | 38                    | Ť          | $\vdash$ | -  | <del> </del> | $\vdash$   | ╁            | -        | <u> </u>   | Н        |
|          | 39                    | $\vdash$   | $\vdash$ | <del>                                     </del> | ┪            | ┢  | -            | H        |            | Н        |
|          | 40                    |            | _        | Т  |              | <del>                                     </del> | $\vdash$     | $\vdash$ |            | Н        |
|          | 41                    |            |          |  |              |  | _            |          |            | П        |
|          | 42                    |            |          |  |              |  |              |          |            | П        |
|          | 43                    |            |          |  |              |  |              |          |            |          |
|          | 44                    |            |          | 匚  |              |  |              |          |            |          |
|          | 45                    | Щ          |          | L.   | L            | <u> </u>   |              |          |            |          |
|          | 46                    | L          |          | <u> </u>   | <u> </u>     | L  | <u> </u>     | <u>L</u> | آــــا     | Ш        |
|          | 47                    |            |          | <u> </u>   | <u> </u>     | <b>—</b>   | $\vdash$     | <u> </u> | lacksquare |          |
|          | 48                    | $\dashv$   |          | -  | <u> </u>     | H  | $\vdash$     | Ι.,      |            | Щ        |
|          | 49<br>50              |            | _        | <u> </u>   | <u> </u>     | -  |              |          | -          | $\dashv$ |
| ليسسا    | οU                    | زيا        |          | Ш  | L            |  | L            |          | L          |          |

| _ | <del></del> | ,        |          | _  | - 1 | -     |          | —  | _        | _        |          | _        | _      | _        | _        | _        |
|---|-------------|----------|----------|--|-----|-------|----------|--|----------|----------|----------|----------|--------|----------|----------|----------|
|   |             |          |          |  |     | Final | Original |  |          |          |          |          |        |          |          |          |
|   | _           |          |          |  | i   |       | 51       |  | _        |          |          |          |        | $\vdash$ | ┢        | ┢        |
|   | $\vdash$    | _        |          |  | 1   |       | 52       |  |          |          |          |          | _      | _        | $\vdash$ | $\vdash$ |
| _ | t           | 1        | Т        | $\vdash$   | 1   | -     | 53       |  | _        | -        |          |          |        | -        | $\vdash$ | -        |
|   | 一           | $\vdash$ | t        | -  | 1   |       | 54       | -  | _        | -        | _        |          | _      | _        | -        | <u> </u> |
|   | ┢           | 1        | ╁        | $\vdash$   | 1   |       | 55       |  |          |          |          |          | _      |          |          | -        |
|   | -           |          |          | -  | 1   |       | 56       |  |          | -        |          | _        | _      |          | $\vdash$ | -        |
|   | ╁           | $\vdash$ | $\vdash$ | $\vdash$   | 1   |       | 56<br>57 |  |          |          | _        | _        |        | -        |          | -        |
|   | $\vdash$    | $\vdash$ |          |  | 1   |       | 58       | -  | _        |          |          | _        | -      |          |          | $\vdash$ |
|   |             | _        | 1        | 1  | 1   |       | 59       | <del>                                     </del> |          |          |          |          |        | _        |          | $\vdash$ |
| _ | t           | $\vdash$ | 1        | -  | 1   |       | 59<br>60 | -  |          |          | _        |          |        |          |          | -        |
|   | _           |          | $\vdash$ | ┢  | 1   |       | 61       |  |          |          | -        |          |        | $\vdash$ |          | $\vdash$ |
|   | $\vdash$    |          |          | $\vdash$   | 1   |       | 62       | $\vdash$   |          |          |          |          | -      |          | _        | _        |
|   | $\vdash$    | _        | 1        | <del>                                     </del> | 1   |       | 62<br>63 | _  |          |          |          |          | -      | _        |          |          |
|   | †           | <b>—</b> |          |  | 1 1 |       | 64       | $\vdash$   |          |          | -        |          |        | -        |          | _        |
|   | $\vdash$    |          |          |  | 1   |       | 65<br>66 |  |          |          |          |          |        |          |          |          |
|   |             |          |          | _  | 1   |       | 66       |  |          |          |          |          |        | _        | _        |          |
|   | П           |          |          |  | 1 1 |       | 67       | Г  |          |          |          |          |        |          |          |          |
|   | П           |          |          |  | 1   |       | 68       |  |          |          |          |          |        |          |          |          |
|   |             |          |          |  | 1   |       | 68<br>69 |  |          |          |          |          |        |          |          |          |
|   |             |          |          |  | 1   |       | 70       |  |          |          |          |          |        |          |          |          |
|   |             |          |          |  |     |       | 71       |  |          |          |          |          |        |          |          |          |
|   |             |          |          |  |     |       | 72       |  |          |          |          |          |        |          |          |          |
|   |             |          |          |  |     |       | 73       |  |          |          |          |          |        |          |          |          |
|   |             | <u> </u> |          | L  |     |       | 74       |  |          |          |          |          |        |          |          |          |
|   |             |          | L        |  |     |       | 75       |  |          |          |          |          |        |          |          |          |
|   |             | <u> </u> | <u> </u> |  |     |       | 76       |  |          |          |          |          |        |          |          |          |
| _ |             | <u> </u> | <u> </u> | <u> </u>   |     |       | 77       |  |          | _        | Щ        |          |        |          |          |          |
|   | _           | <u> </u> | H        | <u> </u>   |     |       | 78       | щ  | _        | _        |          | _        |        |          |          | _        |
|   | _           |          | H        |  |     |       | 79       | _  | -        | _        |          | _        |        |          |          |          |
| _ | $\vdash$    | -        | _        | <u> </u>   |     |       | 80<br>81 |  | -        | _        |          |          | _      |          |          |          |
| _ | -           | _        | _        | _  |     |       | 01       |  | -        | $\dashv$ | $\dashv$ | $\dashv$ |        | -        |          |          |
| _ | H           |          | -        | _  |     |       | 82<br>83 | -  | $\dashv$ | -        | $\dashv$ |          | _      | _        |          |          |
|   |             | _        | $\vdash$ |  |     | · · · | 84       |  | $\dashv$ | $\dashv$ | $\dashv$ | -        |        |          | _        |          |
| _ |             |          | _        |  |     |       | 85       |  | $\dashv$ | -        | $\dashv$ | $\dashv$ |        | -        |          |          |
|   | Н           | _        | -        |  |     |       | 86       |  |          | $\dashv$ |          | $\dashv$ |        |          |          |          |
|   | Н           | _        |          | _  |     |       | 87       |  |          | _        | $\dashv$ |          |        |          |          |          |
|   |             | _        |          | -  |     |       | 88       | $\dashv$   | $\dashv$ | $\neg$   | -        | $\neg$   | -      |          |          |          |
|   |             |          |          | _  |     |       | 88<br>89 |  | 1        |          | $\neg$   | $\dashv$ |        | $\neg$   |          |          |
|   |             |          |          |  |     |       | 90       |  | $\neg$   |          | $\neg$   | $\neg$   | $\neg$ |          |          |          |
|   |             |          |          |  |     |       | 91       |  | 一        |          |          | $\neg$   |        | _        | $\neg$   |          |
|   |             |          |          |  |     |       | 92       |  |          |          |          | T        |        | $\neg$   |          |          |
|   |             |          |          |  |     |       | 93       |  |          |          |          |          |        |          | ヿ        |          |
|   |             |          |          |  | [   |       | 94       |  |          |          |          |          |        |          |          |          |
|   |             |          |          |  | . [ |       | 95       | $\Box$   |          |          |          |          |        |          |          |          |
|   | L.          |          | _        |  |     |       | 96       | [  | [        | [        | $\Box$   |          | $\Box$ |          |          |          |
| _ |             | $\Box$   |          |  |     |       | 97       |  | _        | _        |          |          | _]     | $\Box$   | $\Box$   |          |
| _ | $\sqcup$    |          | _        |  |     |       | 98       |  |          | _        | _        | _        | _      |          |          | _        |
| _ | $\dashv$    |          |          | $\dashv$   |     |       | 99       |  | 4        |          | 4        | _        | _      | _        | _        |          |
|   | Ш           |          |          |  | L   |       | 100      |  |          |          |          |          |        |          |          |          |
|   |             |          |          |  |     |       |          |  |          |          |          |          |        |          |          |          |

| Claim       |   | Π            | Date                                |                   |          |          |          |          |  |  |   |
|-------------|---|--------------|-------------------------------------|-------------------|----------|----------|----------|----------|--|--|---|
|             |   |              |                                     |                   |          | T        | Ť        | Г        |  | T  | 1 |
| <del></del> | <u>a</u>  | İ            |                                     | l                 |          |          | 1        | i        |  |  | l |
| Final       | Original  | ļ            |                                     |                   |          |          |          | l        |  |  | l |
| "           | Ö   |              |                                     |                   | ł        |          |          |          |  | 1  | ı |
|             |   | -            |                                     | ⊢                 | ├        | ├-       | ⊢        | ⊢        | ⊢  | ├  | 1 |
| <u> </u>    | 101   | <u> </u>     | ļ                                   | ┡                 | ├-       |          | ⊢        | ١        | ┞  | ⊢  | ł |
| ļ           | 102<br>103  | <u> </u>     | -                                   | <u> </u>          | <u> </u> | ⊢        | ▙        |          | <u> </u>   | <del>                                     </del> | l |
| <u> </u>    | 103   |              |                                     | <del> </del>      | ┡        | ـــ      | ļ        | <u> </u> | ↓_   | <u> </u>   | l |
|             | 104<br>105<br>106   | L            | <u> </u>                            | _                 | L        | <u> </u> | ļ        | ļ        | <u> </u>   | <u> </u>   | 1 |
|             | 105   | ļ.,          | <u> </u>                            | <u> </u>          | ┕        | ļ        | _        | <u> </u> | <u> </u>   | <u> </u>   | 1 |
|             | 106   | _            | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>          | _        | L        | _        | _        | L  |  | l |
|             | 107   | _            | <u> </u>                            | _                 | <u> </u> | L        | <u> </u> | 上        | L.   | Ľ  | l |
|             | 108   | _            |                                     | L.                | _        |          | <u> </u> | _        | _  |  | l |
|             | 108<br>109  |              |                                     |                   |          |          |          |          |  |  |   |
| L           | 110   |              |                                     |                   |          |          |          | <u> </u> |  |  |   |
|             | 111   | _            |                                     |                   | L        |          |          |          |  |  |   |
| L           | 112   | <u> </u>     | _                                   | $ldsymbol{f eta}$ | _        |          |          | L        | L.,  |  |   |
| <u> </u>    | 113   | $oxed{\Box}$ | _                                   |                   |          |          |          |          |  |  |   |
|             | 110<br>111<br>112<br>113<br>114<br>115                                    |              |                                     | L                 |          | $\Box$   | •        | L        | L  | $\Box$   |   |
|             | 115   |              |                                     |                   |          |          |          |          |  |  | ] |
|             | 1116  | L            | Ĺ                                   | Ĺ                 |          |          |          |          |  |  |   |
|             | 117   |              |                                     |                   |          |          |          |          |  |  | ] |
|             | 118   |              |                                     |                   |          |          |          |          |  |  | 1 |
|             | 117<br>118<br>119   |              |                                     |                   |          |          |          |          |  | Г  | 1 |
|             | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130 |              |                                     |                   |          |          |          |          |  |  | 1 |
|             | 121   |              |                                     |                   |          |          | Г        |          |  |  | 1 |
|             | 122   |              |                                     |                   | Г        |          |          |          | Г  |  | 1 |
|             | 123   |              |                                     |                   |          |          |          |          |  |  | ĺ |
|             | 124   |              |                                     |                   |          |          |          | Г        |  |  | 1 |
|             | 125   |              | П                                   |                   | Γ        | Π        |          |          |  |  | 1 |
|             | 126   | _            |                                     |                   | Г        | Г        |          |          |  |  | 1 |
|             | 127   | П            |                                     |                   |          |          |          |          |  |  | ١ |
|             | 128   |              |                                     |                   |          |          | Γ        | Г        |  |  | ١ |
|             | 129   |              |                                     | Г                 | Г        |          | T        |          |  |  | 1 |
|             | 130   |              |                                     |                   | Г        |          |          |          |  |  |   |
|             | 131   |              | _                                   |                   |          |          | $\vdash$ |          |  |  | 1 |
|             | 131<br>132  |              |                                     |                   |          |          |          | Г        |  | П  |   |
|             | 133   |              | Г                                   |                   |          |          |          |          | <u> </u>   | П  |   |
|             | 134<br>135  |              |                                     |                   |          |          | -        |          |  | М  |   |
|             | 135   |              | Г                                   |                   | Г        |          |          | $\vdash$ | <u> </u>   | П  |   |
|             | 136   |              |                                     |                   | ŀ        |          |          | $\vdash$ | <del>                                     </del> | М  |   |
|             | 137   |              |                                     |                   |          | l        | $\vdash$ |          |  | $\Box$   |   |
|             | 137<br>138  |              |                                     |                   | 1        | Г        |          |          |  | М  |   |
|             | 139   | $\Box$       |                                     |                   |          |          | T        |          |  | Н  |   |
|             | 140   |              |                                     |                   | T-       | $\vdash$ | Т        | Т        |  | Н  |   |
|             | 141   |              |                                     |                   | $\vdash$ | $\vdash$ | Т        |          |  | H  |   |
|             | 142   |              |                                     |                   | $\vdash$ | <u> </u> | _        |          | _  |  |   |
|             | 143   |              |                                     | Н                 | _        |          |          |          | т  | Н  |   |
|             | 144   | _            |                                     | т                 | _        |          |          | -        | Н  | $\vdash \vdash$                                  |   |
|             | 145   |              |                                     |                   |          |          | $\vdash$ |          | -  | $\dashv$   |   |
|             | 146   |              | $\vdash$                            |                   | -        |          |          |          |  | $\vdash$   |   |
|             | 147   | _            |                                     | _                 | _        |          | $\vdash$ |          |  | $\dashv$   |   |
|             | 148   |              | $\vdash$                            | $\vdash$          | -        | -        | $\vdash$ | $\vdash$ |  | $\vdash$   |   |
|             | 149   |              |                                     |                   |          |          | Н        | $\vdash$ |  | $\dashv$   |   |
|             | 150   |              | -                                   | $\vdash$          | _        |          |          | $\vdash$ | -  | -  |   |
|             |   |              |                                     |                   |          |          |          |          |  |  |   |